



# **GOLD 2006**

## *NEW INDUSTRIAL APPLICATIONS OF GOLD*

### GOLD 2006 Programme

**GOLD 2006** promises to be an exciting gold conference for both scientists and industrialists.

With record numbers of abstracts received, the organisers have been able to select an excellent programme of quality oral presentations and posters. It is evident that there has been a considerable amount of research into the science, technology and applications of gold since 2003. An aim of the conference is to bring scientists and industrialists together to promote *the exploitation of gold science into new applications*.

The conference will open on Sunday afternoon with the Opening Plenary session. As in Vancouver in 2003, the main sessions will be held in four parallel sessions over the following 3 days, 2 focused on catalysis and the others on chemistry, biomedical, materials and nanotechnology. There will also be 2 extended poster sessions. **A new innovation** will be brief oral presentations by many poster authors; these '*Quicky Sessions*' will enable poster authors to provide a stimulating introduction to their poster presentations and assist delegates to target posters of especial interest. Within the main sessions, Keynote lectures will be given by eminent scientists and industrialists (These were published in the last issue of *Gold Bulletin*).

The presentations will be given under the following session titles:

#### **Catalysis**

- Catalyst preparation
- Catalyst characterisation
- Selective oxidation
- Non-selective CO oxidation
- Clean hydrogen production
- Water gas shift reaction
- Hydrogenation and Isomerisation
- Chemical synthesis
- Air pollution control
- Water pollution control
- Catalyst durability
- Homogeneous catalysis
- Theory and mechanisms

#### **Chemistry**

- Luminescence: science and applications
- Metal-metal interreactions in macromolecules
- Organometallic and coordination chemistry
- Medical and biological applications
- Physical chemistry and recovery
- Theoretical chemistry and nanotechnology

#### **Materials**

- Advanced materials
- Advanced alloys



### Nanotechnology

- Plasmonics and Nanoelectronics
- New medical applications for nanogold
- Synthesis of gold nanoparticles
- Chemical physics of gold nanoparticles
- Self-assembled systems

The list of ***papers and posters*** is available on the conference website. Papers of oral presentations and posters will be published in special Gold 2006 editions of leading journals including ***Gold Bulletin***. Note: Poster submissions on the latest research results will be accepted up to the start of the conference.

**Technology Exchange:** A new initiative at the conference will be the *Technology Exchange*. Recognising that there is a great deal of innovative research into gold science and technology being undertaken in universities and industrial research laboratories around the world and looking to see new industrial applications for gold emerge, there is a clear need to ensure that this new emerging science is brought to the attention of industry. This initiative provides the chance for researchers to display short summaries of gold-based technologies that have been developed in their research institute, university or laboratory. Display boards will be provided in the tea/coffee serving area of the conference, allowing industrialists and other interested parties to view the presented information at their convenience. This gives researchers the chance to market the benefits their technology offers and potentially arouse interest from commercial organisations interested in exploiting it. This may lead to further R&D funding for their work and, in the longer term, offer possibly royalty income, if a successful product or process is developed. Further details on the conference website.

The 4th International Conference on Gold Science, Technology and its Applications, **GOLD 2006**, will take place on 3rd – 6th September, 2006, at the University of Limerick, Limerick, Ireland. Full details and registration will be found on the conference website at: [www.gold2006.org](http://www.gold2006.org)

**Students:** Special bursaries for first 50 students registering! Register now!

*Gold 2006* is organised by World Gold Council and the University of Limerick

*Confirmed sponsors include:*

DMCC, Project AuTEK, World Gold Council, BASF, 3M, Degussa AG, Metalor, Rand Refinery and Tanaka KK

Prizes – Gold coins donated by: AngloGold Ashanti, Gold Fields, Harmony and Rand Refinery



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